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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/064,374	07/08/2002	Kazuo Sekiya	JP920010116US1	4009	
877 75	90 08/31/2004		EXAMINER		
IBM CORPORATION, T.J. WATSON RESEARCH CENTER			NGUYEN, JIMMY H		
P.O. BOX 218 YORKTOWN HEIGHTS, NY 10598			ART UNIT	PAPER NUMBER	
			2673	 	
			DATE MAILED: 08/31/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

	,	Applic	ation No.	Applicant(s)	-		
•		10/064	1,374	SEKIYA ET AL.			
	Office Action Summary	Exami	ner	Art Unit			
			H. Nguyen	2673			
Period fo	The MAILING DATE of this commun or Reply	ication appears on	the cover sheet with the	correspondence address			
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm a period for reply specified above is less than thirty (3 b period for reply is specified above, the maximum st ure to reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136(a). In no nunication. iii) days, a reply within the atutory period will apply an will, by statute, cause the	event, however, may a reply be to statutory minimum of thirty (30) da d will expire SIX (6) MONTHS from application to become ABANDON	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status							
1) 又	Responsive to communication(s) file	ed on <i>08 July 2002</i> .					
2a)□	•	2b)⊠ This action is					
3)□	,—						
Disposit	ion of Claims						
5)⊠ 6)⊠	Claim(s) <u>1-17</u> is/are pending in the a 4a) Of the above claim(s) is/a Claim(s) <u>10-13 and 16</u> is/are allowed Claim(s) <u>1,2,5,8,9,14,15 and 17</u> is/a Claim(s) <u>3,4,6 and 7</u> is/are objected Claim(s) are subject to restrict	re withdrawn from d. re rejected. to.					
Applicat	ion Papers		đ				
9)	The specification is objected to by th	e Examiner.					
10)	The drawing(s) filed on is/are	a) accepted or	b) ☐ objected to by the	Examiner.			
	Applicant may not request that any obje	ction to the drawing(s	s) be held in abeyance. Se	ee 37 CFR 1.85(a).			
11)	Replacement drawing sheet(s) including The oath or declaration is objected to			•			
Priority :	ınder 35 U.S.C. § 119						
12)⊠ a)	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internationsee the attached detailed Office actions	documents have b documents have b of the priority docu nal Bureau (PCT F	een received. een received in Applicat ments have been receiv Rule 17.2(a)).	ion No ed in this National Stage			
Attachmen	t(s)						
	e of References Cited (PTO-892)	TO 0.40)	4) Interview Summary				
3) 🔲 Infor	e of Draftsperson's Patent Drawing Review (P nation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date		Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	ate Patent Application (PTO-152)			

Application/Control Number: 10/064,374 Page 2

Art Unit: 2673

DETAILED ACTION

This Office Action is made in response to applicant's papers filed on 07/08/2002. Claims
 1-17 are currently pending in the application. An action follows below:

Claim Objections

- 2. Claims 1-3, 5, 6, 10, 12 and 16 are objected to under 37 CFR 1.75(a) because although these claims meet the requirement 112/2d, i.e., the metes and bounds are determinable, however, the following changes should be made:
 - a. claim 1, lines 6-7, "which is accelerated or decelerated" should be changed to -- to accelerate or decelerate a brightness transition for each sub-pixel in order --, because the voltage can be increased or decreased, but can't be accelerated or decelerated. Further, see claim 8 and abstract.
 - b. claim 2, line 3, "to be accelerated or decelerated" should be changed to -- to accelerate or decelerate a brightness transition --, because the voltage can be increased or decreased, but can't be accelerated or decelerated. Further, see claim 8 and abstract.
 - c. claim 3, line 3, "to be accelerated or decelerated" should be changed to -- to accelerate or decelerate a brightness transition for each sub-pixel--, because the voltage can be increased or decreased, but can't be accelerated or decelerated. Further, see claim 8 and abstract.
 - d. claim 5, line 3, "TFT" should be changed to -- thin film transistor (TFT) --, in order to define the feature in the claim. See specification, page 7, line 6.
 - e. claim 6, lines 3-4, "will be" should be changed to -- is--, in order to improve the form to conform with U.S. claim practice.

Art Unit: 2673

e. claim 10, line 3, claim 12, line 4, and claim 16, line 3, "will reach" should be changed to -- reaches--, in order to improve the form to conform with U.S. claim practice.

It is in the best interest of the patent community that applicant, in his/her normal review and/or rewriting of the claims, to take into consideration these editorial situations and make changes as necessary.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1, 2, 5, 8, 9, 14, 15 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Matsueda (JP 07-121138). See the attached copy of English translation for the following rejections.

As to claims above, the claimed invention reads on Matsueda as follows: Matsueda discloses a LCD device comprising a LC cell (98) (see fig. 10), a driver (a data driver 96, fig. 10), an overdrive controller (a controller comprising elements 94, 95, 100 and 101, see fig. 10) for controlling the driver (96) to apply an overdrive voltage (an amplified signal from the signal amplifying circuit 95) exceeding a targeted pixel value (a value corresponds to the picture signal sent from the signal selection circuitry (since the picture signal sent from a selection circuit 94 is combined with the gamma correction signal from the gamma amendment table 101, see fig. 10, paragraph [0017]). Matsueda further teaches the overdrive controller (94, 95, 100 and 101) comprising elements (100, 101 and 94) including the claimed transition state comprehending

Application/Control Number: 10/064,374 Page 4

Art Unit: 2673

means and select means, and the signal amplifying circuit (95) including the claimed acceleration/deceleration voltage calculating means and acceleration voltage calculating means (see fig. 10, paragraph [0017]). Matsueda further teaches that the speed of response of liquid crystal increases with an increase of the driver voltage (see paragraphs. [0003] and [0005]). In other words, Matsueda implicitly discloses the amplified voltage from the signal amplifying circuit 95, to accelerate the brightness transition for each sub-pixel (R, G, B). Further, see paragraphs [0008], [0014], [0015] and [0017]. Accordingly, the elements and the steps in the claims are read in the reference.

Allowable Subject Matter

- 5. Claims 10-13 and 16 are allowed.
- 6. Claims 3, 4, 6 and 7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- The following is a statement of reasons for the indication of allowable subject matter: the claimed invention is directed to a LCD device and an associate method for driving a LCD.

 Dependent claims 3 and 4 identify the uniquely distinct feature, "said overdrive controller stores predicted capacitance for each of the sub-pixels and calculates the overdrive voltage based on the predicted capacitance". Claim 6 identifies the uniquely distinct feature, "capacitance predicting unit for predicting a capacitance value ... with the present capacitance value", see lines 3-5.

 Claim 10 identifies the uniquely distinct features, "capacitance predicting unit for predicting a capacitance value ... target brightness", see lines 2-4, and "a transition state comprehending unit ... in said storage device", see lines 6-8. Claim 12 identifies the uniquely distinct features,

Application/Control Number: 10/064,374

Art Unit: 2673

"predicting a capacitance value ... capacitance value", see lines 4-9. Claim 16 identifies the uniquely distinct features, "predicting a capacitance value ... capacitance value", see lines 3-9. The closest art, Matsueda, as discussed in the rejection above, fails to anticipate or render the above underlined limitations obvious.

Page 5

Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Johnson (USPN: 6,304,254 B1) discloses a related LCD device wherein the switching can be accelerated by applying a voltage having a higher value, so as to correct for changes of ambient or liquid temperature (col. 5, line 64 through col. 6, line 3).
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jimmy H. Nguyen whose telephone number is (703) 306-5422. The examiner can normally be reached on Monday Thursday, 8:00 a.m. 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached at (703) 305-4938.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Application/Control Number: 10/064,374

Art Unit: 2673

Page 6

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

JHN August 30, 2004 Jimmy H! Nguyen

Examiner

Art Unit: 2673